

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2001, 04:05:59 ; Search time 10554.9 Seconds

(without alignments)  
1800.570 Million cell updates/sec

Title: US-09-526-329-38

Sequence: 1 gagcgagcgcgcgcgttcag.....aaaaaaaaaaaaaaaaa 1152

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1472140 seqs, 8248589755 residues

Total number of hits satisfying chosen parameters: 2944280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb\_hg:\*

2: gb\_hg:\*

3: gb\_in:\*

4: gb\_om:\*

5: gb\_ov:\*

6: gb\_pat:\*

7: gb\_ph:\*

8: gb\_pl:\*

9: gb\_pr:\*

10: gb\_ro:\*

11: gb\_sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

15: em\_ba:\*

16: em\_fun:\*

17: em\_hum:\*

18: em\_in:\*

19: em\_om:\*

20: em\_or:\*

21: em\_ov:\*

22: em\_pat:\*

23: em\_ph:\*

24: em\_pl:\*

25: em\_ro:\*

26: em\_sts:\*

27: em\_sy:\*

28: em\_un:\*

29: em\_vl:\*

30: em\_hlgo\_hum:\*

31: em\_hlgo\_inv:\*

32: em\_hlgo\_rod:\*

33: em\_hlgo\_hum:\*

34: em\_hlgo\_inv:\*

35: em\_hlgo\_rod:\*

36: em\_hlgo\_other:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1152	100.0	1152	9	AF110466	AF110466 Homo sapi
2	1150.4	99.9	1177	9	AF137027	AF137027 Homo sapi
3	963	83.6	3144	9	AB035343	AB035343 Homo sapi
4	963	83.6	3240	9	AB035340	AB035340 Homo sapi
5	963	83.6	3532	9	AB035341	AB035341 Homo sapi
6	963	83.6	3599	9	AB035342	AB035342 Homo sapi
7	718	62.3	11438	2	AC010356	AC010356 Homo sapi
8	718	62.3	204843	9	AC010359	AC010359 Homo sapi
9	701.6	60.9	137808	2	AC008889	AC008889 Homo sapi
10	701.2	60.9	6486	9	AF110465	AF110465 Homo sapi
11	700.4	60.8	1248	9	AF110467	AF110467 Homo sapi
12	699.6	60.7	166308	9	CNS01DX2	AL133020 Human chr
13	699.6	60.7	210791	9	CNS01DX7	AL133467 Human chr
14	695.4	60.4	110879	9	AC016603	AB025274 Homo sapi
15	687.6	59.7	1717	9	AB02527283	AB025272 Homo sapi
16	687.2	59.7	1722	9	AB018563	AB018563 Homo sapi
17	189	16.4	627	9	AB02527281	AB025272 Homo sapi
18	169.4	14.7	753	9	AB02527282	AB025273 Homo sapi
19	64.4	5.6	7218	6	I66494	I66494 Sequence 14
20	63	5.5	1040	10	AF195492	AF195492 Mus muscu
21	62.8	5.5	1231	9	BC003574	BC003574 Homo sapi
22	62.8	5.5	1240	9	BC005831	BC005831 Homo sapi
23	62.8	5.5	1324	6	AR086519	AR086519 Sequence
24	62.8	5.5	1324	6	HSTCL1	X82240 H.sapiens m
25	56.6	4.9	1048	10	AF195493	AF195493 Mus muscu
26	55	4.8	1020	10	AF195489	AF195489 Mus muscu
27	51.2	4.4	1058	10	AF195490	AF195490 Mus muscu
28	51	4.4	166308	9	CNS01DX2	AL133020 Human chr
29	50	4.3	4922	6	AR086521	AR086521 Sequence
30	48	4.2	1338	10	AF031956	AF031956 Mus muscu
31	48	4.2	1338	10	MMRNATC1	Y15376 Mus muscu
32	47.4	4.1	957	4	AF195491	AF195491 Mus muscu
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34	44.2	3.8	124499	2	AC007307	AC007307 Mus muscu
35	42.6	3.7	134148	2	AL358512	AL358512 Homo sapi
36	42	3.6	1040	10	AF195488	AF195488 Mus muscu
37	41.6	3.6	1719	6	AX127641	AX127641 Sequence
38	41.2	3.6	1770	5	CCZP2A	Z72491 C. carpio mr
39	41	3.6	1555	9	BC001141	BC001141 Homo sapi
40	41	3.6	1555	9	BC008033	BC008033 Homo sapi
41	40.8	3.5	89723	9	AP001417	AP001417 Homo sapi
42	40.8	3.5	100000	9	AP000018	AP000018 Homo sapi
43	40.8	3.5	100000	9	AP000160	AP000160 Homo sapi
44	40.8	3.5	340000	9	AP001730	AP001730 Homo sapi
45	40.4	3.5	179463	2	AL596453	AL596453 Homo sapi

## ALIGNMENTS

RESULT 1

AF110466

LOCUS Homo sapiens T-cell leukemia/lymphoma 1B (TCL1B) mRNA, complete cds.

DEFINITION AF110466.1 GI:4324704

ACCESSION AF110466

VERSION AF110466.1

KEYWORDS

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1152)

AUTHORS Pekarisky,Y., Hallas,C., Isobe,M., Russo,G. and Croce,C.M.

TITLE Abnormalities at 14q32.1 in T cell malignancies involve two oncogenes

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (6), 2949-2951 (1999)

MEDLINE 99178995

REFERENCE 2 (bases 1 to 1152)

AUTHORS Pekarisky,Y., Hallas,C. and Croce,C.M.

TITLE Direct Submission  
JOURNAL Submitted (02-DEC-1998) KCI, Thomas Jefferson University, 233 South  
10th Str. BSB 1032, Philadelphia, PA 19107, USA  
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SOURCE  
1. 1152  
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BASE COUNT 232 a 325 c 324 g 271 t  
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Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1152; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 GAGGCGGAGTCCGGGTGAGAGCTTGCCATGCGCTCCAGAGCTTCTGTGCTAGGGGTG 60  
61 cccctgagcctgtctgtgagcagagcctgtgacatcagaaatgagagagagagacc 120  
61 CCCCCTGAGCCTGTGTGATCCAGAGCCTGTGACATCAAGATGAGAGGAGAGACC 120  
121 tgggtgactgt 180  
121 TGGGTGACTGT 180  
181 ggaagagatgagacccagacatcagatgagcctgtgtgagagatgagatgagacccg 240  
181 GGAAGAGATGAGACCCAGACATCAGATGAGCCTGTGTGAGAGATGAGATGAGACCCG 240  
241 gagctactctcccgagcagatgaccccttccagcctgcccgtgtgtgagcctctac 300  
241 GAGCTACTCTCCCGAGCAGATGACCCCTTCCAGCCTGCGCCCGTGTGAGCCTCTAC 300  
301 cccgggaagaatgagcagagagagatgagcttctgtgagaaatgagacatgagcag 360  
301 CCCGGGAAGAATGAGCAGAGAGATGAGCTTCTGTGGAATGAGACCATGAGCCAG 360  
361 attgactatgagcagctgt 420  
361 ATTGACTATGAGCAGCTGT 420  
421 gaggtgagcctgt 480  
421 GAGGTGAGCCTGT 480  
481 tgaagatctcaatgactgt 540  
481 TGAAGATCTCAATGACTGT 540  
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601 cctgtccactaagatctgtactaagagcagctgtgctgtgagctgtgtgtgtgtgtgt 660  
601 CCTGTCCACTAAGATCTGTACTAAGAGCAGCTGTGCTGTGATGGCTTACTGTGGGCCCT 660  
661 gtctgt 720

|||||  
Db 661 GTCTGT 720  
Qy 721 gccctcagctgt 780  
Db 721 GCCCTCAGCTGT 780  
Qy 781 gtgccagcagagcctcagaccccccagctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 840  
Db 781 GTGCCAGCAGAGCCTCAGACCCCCAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 840  
Qy 841 aggcagatgt 900  
Db 841 AGGCAGATGT 900  
Qy 901 atgcccgt 960  
Db 901 ATGCCCTGT 960  
Qy 961 agcaatgtacacccagagcctcagatgagccatctgtcagcagtgagagatgagagatg 1020  
Db 961 AGCAATGTACACCCAGAGCCTCAGATGAGCCCATCTGCACAGTGGAGCATGAGAGATGG 1020  
Qy 1021 gtttgagcgt 1080  
Db 1021 GTTTGAGCCTGT 1080  
Qy 1081 aagtgagcctcagatgt 1140  
Db 1081 AAGTGAGCCTCAGATGCTGT 1140  
Qy 1141 aaaaaaaaaa 1152  
Db 1141 AAAAAAAAAA 1152

RESULT 2  
AF137027 1177 bp mRNA PRI 13-MAY-1999  
LOCUS  
DEFINITION Homo sapiens syncytiotrophoblast-specific protein mRNA, complete cds.  
ACCESSION AF137027  
VERSION AF137027.1 GI:4809182  
KEYWORDS  
SOURCE  
ORGANISM Homo sapiens  
human.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
AUTHORS Jiang, B. and Mendelson, C.R.  
TITLE A syncytiotrophoblast-specific gene Syn-1 cloned from human  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 1177)  
AUTHORS Jiang, B. and Mendelson, C.R.  
TITLE Direct Submission  
JOURNAL Submitted (24-MAR-1999) Biochemistry, UT Southwestern Medical  
Center at Dallas, 5323 Harry Hines Blvd., Dallas, Texas 75235, USA  
FEATURES  
SOURCE  
1. 1177  
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BASE COUNT 242 a 328 c 332 g 275 t  
ORIGIN

Query Match 99.9%; Score 1150.4; DB 9; Length 1177;  
 Best Local Similarity 99.9%; Pred. No. 0;  
 Matches 1151; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 61 cccctgagcgtctgagatccagagcctgagcatcagaaatagagagggagagac 120
DB 80 CCCCGTGGCGGCTGTGATGATCCAGAGGCTGAGCATCTACGAATAGAGAGGAGGAGAAC 139
QY 121 tgggtgactgctgctgctgagttcaatccctcggttaggaatggcgagggctccag 180
DB 140 TGGGTGACTGCTGCTGCTGCTCAATCCCTGCGTAGGGAATGGGCGAGGCGCTCCAG 199
QY 181 ggcagagatatgaaccagcatcagatgacatgtgtgagagatgagcaatgacacgg 240
DB 200 GCGAGCGAATATGAACCCAGCATACAGTGCATTGTGGCGAGATGGCAGATGCATCCGG 259
QY 241 gactactctctccggcagagatgacctctccagctgcccgcgtgtggagctctac 300
DB 260 GAGCTACTCTCCCGCGCGCAATGCCCCCTCTCCAGCTGCCCGCGTGTGGCAGCTCTAC 319
QY 301 cccgggaggaagtaaccagagcagagatccagttctgggaaataagacacatgacag 360
DB 320 CCGGAGGAGATATCCGAGCGAGGATTCAGATTCTGGAAATAGACAGACCATGGCCAG 379
QY 361 attgactctatgagcagctgctgctcaataataatgacgagagagaaagacagacttg 420
DB 380 ATTGACTCTATGAGCAGCTGCTCTAATATACAGCGGAGAGAAACATGACACTGG 439
QY 421 gagtgagctggcctgctggcctgctctgctgctggctgctgctcctcagccccctag 480
DB 440 GAGTGCTGGCCCTGCTGCGCCCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 499
QY 481 tgaagatcttcatgtacgtctctctgtgttgacacacagacatagccctctgagagca 540
DB 500 TGAAGATCTTCATGTACTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 559
QY 541 gaaggaagtaaggcctctgacactgaattctctgcttctcctagttatcagctctgt 600
DB 560 GAAGGAGTAAGGCGCCCTGCGACACTCATGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 619
QY 601 cctgctccactagctctgacttacttgaagcagctgctgagctctcactgagccccct 660
DB 620 CCTGCTCCACTAGGCTCTGACTTAAAGGAGAGCTGGCTGAGTGGCTTCACTGGGGCCT 679
QY 661 gctgtgtgtgtgagcagattccctgctgctgctgacagctgtgggttcttctcctgt 720
DB 680 GTCGTGTGTGTGTGAGCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 739
QY 721 gccctcatgctgactctctagatgacactcccaatccctccatccacacagagatgt 780
DB 740 GCCCTCATGCTGATCTTCTAGATGCACTCCCAATCCCTTCCATACCCACAGAGAGT 799
QY 781 gtgctccagcagagctccagacaccccaagtgtgagctgtgatttggaaactcaatggc 840
DB 800 GTGCTCCAGCGAGCTCCAGCAGCCCCAGATGACGCTGCTGTAAGAACTCAGCATCGCGC 859
QY 841 agagcaatgctgcttlaagagatgagatlaagagaaacccagctcgtgagctgtg 900
DB 860 AGGCAATGTGCTGGTTTAAAGAGATGGCATTTAAGGAGAGCCAGCTGAGATGTGGATCTGG 919
QY 901 atgacctgtggtatcaagttctgttgaacacttggccggaatagatcaagctgtgagca 960
DB 920 ATGACCTGTGTGGATCAAGTCTGCTGACACTTGTGGCCGGAATATGATCCAGTGTGAGACA 979
QY 961 agcaatgtaaccagagcctcagtgagccatctgcaagctgagggagcaatgagagatg 1020
DB 980 AGCAATGTACCGAGGCTTCAGTGAAGCCCATCTGCACAGTGGGGAGAGCATGAGAGATGG 1039

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QY 1021 gttggcctgtgctctgcttacttccagctcagcaagagagatgtagtcgtg 1080
DB 1040 GTTGGCGCTGTGCTGCTGCTTATTCAGTCTCAGCTCAGGAGAGATGCTATCTCGTG 1099
QY 1081 aaggtgacctcagagctcgtgttaataacttatttgcctcactgtcaaaaaa 1140
DB 1100 AAGGTGACCTCAGTACTGCTTAAATTAACCTTATTTGTCACACTGTAAAAA 1159
QY 1141 aaaaaaaaaa 1152
DB 1160 AAAAAAAAAA 1171

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RESULT 3
AB035343 3144 bp mRNA PRI 12-DEC-2000
LOCUS
DEFINITION Homo sapiens TCl6f4 mRNA for T-cell leukemia/lymphoma 6 ORF105,
T-cell leukemia/lymphoma 6 ORF72, complete cds, clone:pdG4.
ACCESSION AB035343
VERSION AB035343.1 GI:8176590
KEYWORDS T-cell leukemia/lymphoma 6 ORF72; TCl6f4; T-cell leukemia/lymphoma
6 ORF105.
SOURCE Homo sapiens cell_line:Daudi cDNA to mRNA, clone:pdG4.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3144)
AUTHORS Saitou,M., Sugimoto,J., Hatakeyama,T., Russo,G. and Isobe,M.
TITLE Identification of the TCl6 genes within the breakpoint cluster
region on chromosome 14q32 in T-cell leukemia
JOURN. Oncogene 19 (23), 2796-2802 (2000)
MEDLINE 20309940
REFERENCE 2 (bases 1 to 3144)
AUTHORS Isobe,M., Saitou,M. and Sugimoto,J.
TITLE Direct Submission
JOURNAL Submitted (29-NOV-1999) to the DDBJ/EMBL/GenBank databases.
Masaharu Isobe, Toyama University, Materials and Biosystem
Engineering, Faculty of Engineering; 3190 Gofuku, Toyama 930-8555,
Japan (E-mail:isobe@eng.toyama-u.ac.jp., Tel:+81-76-445-6872,
Fax:+81-76-445-6874)

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## FEATURES

## SOURCE

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## CDS

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BASE COUNT 764 a 809 c 809 g 762 t
ORIGIN

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Query Match

83.6%; Score 963; DB 9; Length 3144;

Best Local Similarity 100.0%; Pred. No. 3e-255;  
Matches 963; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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190 tatgaaccagatcacatgacgctgctgagcagatgacatccggagctctc 249
2182 TATGAACCCAGATCACAGTGCATGTTGGAGATGAGCATGCCGGAGCTACTC 2241
230 tctccgagcagatgctccctccagctgcccgcgtgtgagcacttaaccggagag 309
242 TCTCCGCGGCGCATGCCCTTCTCCAGCTGCCCGCGTGTGAGCTTAACTCCCGGAGG 2301
310 aagtagcagcagcagatccatgcttcctggaataagacacatgccaattgactct 369
2302 AAGTAGCCAGCAGCGGAGTCCAGTTCTGGAATAGACACATGCGCAGATTGACTCT 2361
370 atgagagcagctgtcttaacatatacagccggagaggaagaactggaactggagtgctg 429
2362 ATGAGAGCAGCTGTCTTAACTATACAGCCGGAGAGAAAGATGACACTGGAGTGGCTG 2421
430 gccctctgagccctgctctctctgctgtgtctctcaatgcccctcaatgagatct 489
2442 GCCCTCTGAGCCCTGCTCTTCTGAGCTGTGTCTCTCTCAATGCCCTCAGTAGAGATCT 2481
490 tcatgtaactgctctctgtttgacacacacacacacacacacacacacacacacacac 549
2482 TCATGTAACCTGCTCTTCTGTTGACACACACACACATAGCTCTCTGAGGACAGAGGAGT 2541
550 aagggccctgacacacacacacacacacacacacacacacacacacacacacacacac 609
2542 AAGGCCCTGACACACTAGTTTCTCTGTTTCTCTGTTTCTCTGTTTCTCTGTTTCTCTGTTT 2601
610 ctaaggtctgtaactaagagacagcctgagcctgagctgagcctgagcctgagctgag 669
2602 CTCAGGCTGCTGTAAGGAGAGCTGGGCTGAGTGGCTTCACTGGGGCCCTGTCTGTGTG 2661
670 ctgagccagcttccctgctgctgctgagcagctgctgcttctctctctgctgctctct 729
2662 CTGAGGCACTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2721
730 gctgatactctgatagacacacacacacacacacacacacacacacacacacacacacac 789
2722 GCTGATCTCTGATAGACACACACACACACACACACACACACACACACACACACACACAC 2781
790 cagggcctcagacacacacacacacacacacacacacacacacacacacacacacacac 849
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2842 TTCGGTTTAAAGATGGCATTTAGAGGAGACACAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 2901
910 gggatcaactctgctgacacacacacacacacacacacacacacacacacacacacacac 969
2902 GGGATCACTTCTGCTGACACACACACACACACACACACACACACACACACACACACACAC 2961
970 caccgagacacacacacacacacacacacacacacacacacacacacacacacacacacac 1029
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3022 GTTCTCTCTCTTATTTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3081
1090 tcaagtagctggttaacttaacttaacttaacttaacttaacttaacttaacttaacttaact 1149
3082 TCACAGTACTGTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3141
1150 aaa 1152
3142 AAA 3144

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RESULT 4

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AB035342
LOCUS      AB035342      3240 bp      mRNA
DEFINITION Homo sapiens TCL6F3 mRNA for T-cell leukemia/lymphoma 6 ORF105,
ACCESSION AB035342
VERSION    AB035342.1 GI:8176587
KEYWORDS   TCL6F3; T-cell leukemia/lymphoma 6 ORF105; TML1 beta ORF72; TML1
           beta ORF105.
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
REFERENCE  1 (bases 1 to 3240)
AUTHORS   Saitou M., Sugimoto J., Hatakeyama T., Russo G. and Isobe M.
TITLE      Identification of the TCL6 genes within the breakpoint cluster
           region on chromosome 14q32 in T-cell leukemia
JOURNAL    Oncogene 19 (23), 2796-2802 (2000)
MEDLINE    20309940
REFERENCE  2 (bases 1 to 3240)
AUTHORS   Isobe M., Saitou M. and Sugimoto J.
TITLE      Direct Submission
JOURNAL    Submitted (29-NOV-1999) to the DDBJ/EMBL/Genbank databases.
           Masaharu Isobe, Toyama University, Materials and Biosystem
           Engineering Faculty of Engineering, 3190 Gofuku, Toyama 930-8555,
           Japan (E-mail: isobe@eng.toyama-u.ac.jp., tel: +81-76-445-6872,
           fax: +81-76-445-6874)
FEATURES
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BASE COUNT   788 a      833 c      786 t
ORIGIN
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Best Local Similarity 100.0%; Pred. No. 3e-255;
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RESULT 5  
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 ACCESSION AB035340  
 VERSION AB035340.1 GI:8176581  
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 SOURCE Homo sapiens cell\_line:Dauidi cDNA to mRNA, clone:pd61.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE 1 (bases 1 to 3532)  
 AUTHORS Saitou,M., Sugimoto,J., Hatakeyama,T., Russo,G. and Isobe,M.  
 TITLE Identification of the TCR genes within the breakpoint cluster

JOURNAL region on chromosome 14q32 in T-cell leukemia  
 MEDLINE Oncogene 19 (23), 2796-2802 (2000)  
 REFERENCE 20309940  
 AUTHORS 2 (bases 1 to 3532)  
 TITLE Isobe,M., Saitou,M. and Sugimoto,J.  
 JOURNAL Direct Submission  
 Submitted (29-NOV-1999) to the DDBJ/EMBL/GenBank databases.  
 Masaharu Isobe, Toyama University, Materials and Biosystem  
 Engineering, Faculty of Engineering, 3190 Gofuku, Toyama 930-8555,  
 Japan (E-mail:isobe@eng.toyama-u.ac.jp., Tel:+81-76-445-6872,  
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 QY 250 tccctccgagatgctcctcctcctcctcctcctcctcctcctcctcctcctcct 309  
 DB 2630 TCCCTCCGCGCAGATGCCCTTCTCCAGCTGCCCGCTGAGCAGCTTACCCGGAGG 2689  
 QY 310 aagtaacag 369  
 DB 2690 AAGTACGAG 2749  
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Qy	850	ttcggtttaagaatagtcgattaaagagggaacccagtcgtagtctgtagcttgatgattgcctct	909			
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Qy	910	gggatacagttctcgtcgtacacttttggccggaataatagatccagtcgtcgtcaagcaatgta	969			
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Qy	970	cacgcggagcctcaagtgaagcccatctgacaagtggggagacatggaaggagatgggtttgacct	1029			
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Qy	1090	tcaacagtcacgtgattaaacttatttgcactcgtcgtcaaaaaaataaaaaaataaaaa	1149			
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SEQUENCE	10 unordered pieces.					
ACCESSION	AC010356					
VERSION	AC010356.4	GI:7710750				
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SOURCE	human.					
ORGANISM	Homo sapiens					
	Eumetazoa; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.					
REFERENCE	1 (bases 1 to 114438)					
AUTHORS	DOE Joint Genome Institute.					
TITLE	Sequencing of Human Chromosome 5					
JOURNAL	Unpublished					
REFERENCE	2 (bases 1 to 114438)					
AUTHORS	DOE Joint Genome Institute.					
TITLE	Direct Submission					
JOURNAL	Submitted (15-SEP-1999) Production Sequencing Facility, DOE Joint					
COMMENT	Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA					
	On May 5, 2000 this sequence version replaced g1:7341483.					

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Center: Joint Genome Institute
Center code: JGI
Web site: http://www.jgi.doe.gov
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Project Information
Center Project Name: 638370
Center clone name: CITB-HI_2028C21
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Summary Statistics
Consensus quality: 105028 bases at least Q40
Consensus quality: 110839 bases at least Q30
Consensus quality: 111997 bases at least Q20
Estimated insert size: 123000; pulse field gel estimation
Estimated insert size: 113338; sum-of-ctrls estimation
Quality coverage: 4.61 in Q20 bases; pulse field gel estimation
Quality coverage: 4.99 in Q20 bases; sum-of-ctrls estimation.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 10 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will

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* be preserved.	2455:	config of 2455 bp in length
1	2455:	gap of unknown length
*	2456	config of 2978 bp in length
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*	9113:	gap of unknown length
*	13014:	config of 3901 bp in length
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*	19657:	gap of unknown length
*	19756:	gap of unknown length
*	25844:	config of 6088 bp in length
*	25845	gap of unknown length
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*	61724:	config of 2358 bp in length
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OY	62	cccccgt--ccgtctcgtgatccagagagcctgcacatccagaaatgaagaaaggaggaac	119
Db	74917	CCCCCCCACATGTCGTGGATATCGAGAGACCTGGAGATCTATGAGGATATCAAGGGAGGAC	74858
OY	120	ctgggttacctggtgcctgctgagcttcaatccctccgctgaaggatgggcccagg-----gc	173
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Db	74797	CTCCCAAGGACACATATATGACCTATGACATACAGTGCACATGTGTGATATGTCAGTGC	74738
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LOCUS Homo sapiens T-cell leukemia/Lymphoma 1B (TCL1B) pseudogene,  
DEFINITION complete sequence.  
ACCESSION AF110467  
VERSION AF110467.1 GI:4324706  
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Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
REFERENCE 1 (bases 1 to 1248)  
AUTHORS Pekarsky, Y., Hallas, C., Isobe, M., Russo, G. and Croce, C.M.  
TITLE Abnormalities at 14q32.1 in T cell malignancies involve two  
oncogenes  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (6), 2949-2951 (1999)  
MEDLINE 99178995  
REFERENCE 2 (bases 1 to 1248)  
AUTHORS Pekarsky, Y., Hallas, C. and Croce, C.M.  
TITLE Direct Submission  
JOURNAL Submitted (02-DEC-1998) KCI, Thomas Jefferson University, 233 South  
10th Str. BLSR 1032, Philadelphia, PA 19107, USA  
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QY 120 ctgggtgactgtgtgtgtgttcaatccctctgtgtgtgtgtgtgtgtgtgtgtgt 173  
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QY 174 ctccagaggaagacatgaaccagacatcagactgtgtgtgtgtgtgtgtgtgtgtgt 233  
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QY 886 tggatgt 945  
DB 1012 CGGATGT 1071  
QY 946 atccagatgt 1005  
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Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
REFERENCE 1 (bases 1 to 166308)  
AUTHORS Heilig, R., Petit, J.L., Vico, V., Dasilva, C., Robert, C., Wincker, P.,  
Brothier, P., Catolillo, L., Barbe, V., Pelletier, E., Artiguenave, F.,  
Levy, M., Beckenberger, R., Bruls, T., deBerardinis, V., Cruaud, C.,  
Gyapay, G., Saurin, W. and Weissenbach, J.  
TITLE Sequencing of the human chromosome 14  
JOURNAL Unpublished  
AUTHORS 2 (bases 1 to 166308)  
REFERENCE Genoscope.  
JOURNAL Direct Submission  
AUTHORS Submitted (26-APR-2001) Genoscope - Centre National de Sequencage :  
BP 191 91006 Evry cedex - FRANCE (E-mail : seque@genoscope.cns.fr  
TITLE - Web : www.genoscope.cns.fr)  
JOURNAL On Apr 3, 2001 this sequence version replaced gi:12274871.  
COMMENT ----- Genome Center  
Center: Genoscope / Centre National de Sequencage





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REFERENCE  
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 Doe Joint Genome Institute and Stanford Human Genome Center.  
 TITLE  
 Direct Submission  
 JOURNAL  
 Unpublished  
 2 (bases 1 to 110879)  
 REFERENCE  
 Doe Joint Genome Institute.  
 TITLE  
 Direct Submission  
 JOURNAL  
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 Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
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 TITLE  
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 JOURNAL  
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 On Jul 20, 2001 this sequence version replaced gi:7711572.  
 Draft Sequence Produced by DOE Joint Genome Institute  
 www.jgi.doe.gov  
 Finishng Completed at Stanford Human Genome Center  
 www.shgc.stanford.edu  
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Qy 171 g-----gcctccagggcagacatatgaaccagacatcagctgcatctgagcat 224  
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 Db 459 GGCCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 518

Qy 585 taatatacagctcctgctcgtcccaactcagctcgtcacttaaggagcagctggtgagag 644  
 |||||  
 Db 519 CACTTATAGTCTTGTCTGCTTCCATGATGATGATGATGATGATGATGATGATGATGATGAT 578

Qy 645 gcttaact-aggccctgctctgtggtggtggtggtggtggtggtggtggtggtggtggtggt 703  
 |||||  
 Db 579 GCTTCACTAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 638

Qy 704 ggttc--tttctctctgtgccccctcactcagctgactcctcagatgacctcccaatccc 761  
 |||||  
 Db 639 GGTTCCTTTCT 698

Qy 762 tt-----catacccaacagatggtggtcagcagcagcagcagcagcagcagcagcagcag 816  
 |||||  
 Db 699 TTACACCATACCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 758

Qy 817 cgtgattggaacatcacatccagcagcagcagcagcagcagcagcagcagcagcagcagcag 876  
 |||||  
 Db 759 CATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 818

Qy 877 agcccaactgagatgagctgagatgagcctggtggtggtggtggtggtggtggtggtggtggt 936  
 |||||  
 Db 819 AACTGGCTGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 878

Qy 937 ccgaatataatcagctgctgagcagcagcagcagcagcagcagcagcagcagcagcagcag 996  
 |||||  
 Db 879 CTGAAT 938

Qy 997 acagtgagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1056  
 |||||  
 Db 939 ACAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 998

Qy 1057 tcaaggagagatgctgctgctgagcagcagcagcagcagcagcagcagcagcagcagcagcag 1116  
 |||||  
 Db 999 TCACACCA-GATGCTATATCATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1057

Qy 1117 tgcctacgtgcaaaaaaaaaa 1139  
 |||||  
 Db 1058 TGCTCACTGAAAAAAGAAAAA 1080

RESULT 15  
 AB025272S3  
 LOCUS Homo sapiens TML1 gene for TML1 / MTCPL1-like 1, exon 3 and complete cds.  
 DEFINITION  
 ACCESSION AB025274  
 VERSION AB025274.1 GI:5478618  
 KEYWORDS TML1; TML1 / MTCPL1-like 1.  
 SEGMENT 3 of 3  
 SOURCE  
 ORGANISM Homo sapiens DNA, clone: pCOS231.  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (sites)



Fri Nov 30 11:03:03 2001

us-09-526-329-38.rge

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Page 16



GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2001, 04:06:44 ; Search time 576.65 Seconds  
(without alignments)  
1712.718 Million cell updates/sec

Title: US-09-526-329-38

Perfect score: 1152

Sequence: 1 gagcgcggtccgcgttgcag.....aaaaaaaaaaaaaaaaa 1152

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 930621 seqs, 428662619 residues

Total number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N\_Geneseq\_1101:\*

1: /SIDS2/gcgdata/geneseq/geneseqn/NA1980.DAT:\*  
2: /SIDS2/gcgdata/geneseq/geneseqn/NA1981.DAT:\*  
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21: /SIDS2/gcgdata/geneseq/geneseqn/NA2000.DAT:\*  
22: /SIDS2/gcgdata/geneseq/geneseqn/NA2001.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1152	100.0	1152	21	AAA75822
2	701.2	60.9	6486	21	AAA75823
3	393.8	34.2	697	22	AAH98245
4	62.8	5.5	561	21	AAH98670
5	62.8	5.5	1235	22	AAI60765
6	62.8	5.5	1324	22	AAI60765
7	62.8	5.5	1368	22	AAI58979
8	30	4.3	4922	17	AAI18877
9	45.6	4.0	10732	21	AAI10594
10	41.6	3.6	1533	20	AAV84490
11	41.6	3.6	1719	22	AAO4477

12	41	3.6	1512	21	AACT5966	Human OREF ORF1521
13	40.4	3.5	2440	21	AACT7441	Human OREF ORF2996
14	39.8	3.5	2617	22	AAH34812	Human COLON cancer
15	39.2	3.4	693	21	AAA77669	Human PRO1266 CDNA
16	39.2	3.4	693	21	AAA37065	Human PRO1266 (UNQ)
17	39.2	3.4	693	22	AAH21493	Human CDNA sequenc
18	39.2	3.4	693	22	AAH53301	DNA encoding prote
19	39.2	3.4	693	22	AAH53301	Human PRO1286 CDNA
20	38.6	3.4	284	20	AAH24580	Human Lung tumor a
21	38.6	3.4	284	21	AAH24580	Human Lung cancer-
22	38.6	3.4	284	21	AAH24580	Human cancer assoc
23	38.4	3.3	2468	22	AAH37714	Human COLON cancer
24	38.2	3.3	798	20	AAH84203	DNA encoding human
25	38.2	3.3	798	20	AAH84203	CDNA sequence of h
26	38	3.3	1097	22	AAH61108	P. patens S-adenos
27	38	3.3	1896	21	AAH74297	Human secreted pro
28	37.8	3.3	585	20	AAH37386	Human secreted pro
29	37.8	3.3	887	19	AAH41915	Nucleotide sequenc
30	37.8	3.3	1314	21	AAH60057	Human secreted pro
31	37.8	3.3	1778	22	AAH54816	Nucleotide sequenc
32	37.8	3.3	1797	20	AAH85038	Human secreted pro
33	37.8	3.3	4274	15	AAO79407	Human NMDAR2 recep
34	37.8	3.3	4289	15	AAO79405	Human NMDAR2 recep
35	37.8	3.3	4325	15	AAO79404	Human NMDAR2 recep
36	37.8	3.3	4340	15	AAO79372	Human N-methyl-D-a
37	37.8	3.3	4349	15	AAO79406	Human NMDAR2 recep
38	37.8	3.3	4364	15	AAO79403	Human NMDAR2 recep
39	37.6	3.3	395	22	AAH33388	Human COLON cancer
40	37.6	3.3	998	11	AAO4796	Sequence encoding
41	37.6	3.3	1989	21	AAH54108	A. thaliana IDV115
42	37.6	3.3	2017	21	AAH97355	Human colorectal c
43	37.6	3.3	4064	21	AAH07587	Mouse pvt1 gene, d
44	37.4	3.2	325	21	AAH99965	Human secreted pro
45	37.4	3.2	350	21	AAH93590	Cat flea head and

#### ALIGNMENTS

RESULT 1	
AAA75822	
ID AAA75822 standard; DNA: 1152 BP.	
XX	
AC AAA75822:	
XX	
DT 22-JAN-2001 (first entry)	
XX	
DE Nucleotide sequence of the human Tc1-1b CDNA.	
XX	
KW Tc1-1; Tc1-1b; T cell malignancy; chromosome 14 abnormality; lymphoma;	
KW T-cell leukaemia; immunodeficiency syndrome; ataxia-telangiectasia; ss.	
OS Homo sapiens.	
XX	
FH Key	Location/Qualifiers
FT CDS	28..414
FT	/*tag= a
FT	/product= "Tc1-1b protein"
XX	
PN W020005169-A1.	
PD	
XX	
PD 21-SEP-2000.	
XX	
PF 15-MAR-2000; 2000OWO-US06612.	
XX	
PR 15-MAR-1999; 99US-0124714.	
XX	
PA (UXJE-) UNTV JEFFERSON THOMAS.	
XX	
PI Croce CM, Pekarsky Y;	
XX	
DR WPI: 2000-611514/58.	
DR P-PDB: AAB18763.	

XX	Novel nucleic acid of Tc1-1 gene family, Tc1-1b, expressed in low
PT	levels in normal bone marrow and peripheral lymphocytes, but activated
PT	in T-cell leukemia and lymphoma, used to identify chromosome 14
XX	abnormalities -
XX	
PS	Claim 5; Page 63; 70pp; English.
XX	
CC	The present sequence encodes a human Tc1-1b protein. The Tc1-1b gene
CC	is implicated in the development of T cell malignancies. Fragments of
CC	Tc1-1b cDNA sequences are used for detecting a target sequence
CC	indicating a chromosome 14 abnormality, such as a (14:14)(q11:q32)
CC	translocation or a (14)(q11-q32) inversion. Tc1-1b antisense sequences
CC	and antibodies are useful for treating a disease state such as T-cell
CC	leukemia or lymphoma associated with a chromosome 14 abnormality. The
CC	Tc1-1b gene and its gene product are useful for treating disease states
CC	associated with the Tc1-1b locus on chromosome protein including
CC	T-prolymphocytic leukemias, acute and chronic leukemias associated
CC	with the immunodeficiency syndrome ataxia-telangiectasia (At).
XQ	Sequence 1152 BP; 232 A; 325 C; 324 G; 271 T; 0 other;

Query Match	100.0%;	Score 1152;	DB 21;	Length 1152;
Best Local Similarity	100.0%;	Pred. No. 9.2e-299;		
Matches 1152;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

[illegible]

Db	661	gtctctgtctgcgcgaattccctccctgtgctgcgaagctgtgtcttcttctctgt	720
OY	721	gccctcatctcatcttctatgatgcattcccaatccctctcatccacacagatgt	780
Db	721	gccctcatctcatcttctatgatgcattcccaatccctctcatccacacagatgt	780
OY	781	gtgcccacgaagctcctcaagacccccagtgtgactgtattgtgaaactaacatctgcg	840
Db	781	gtgcccacgaagctcctcaagacccccagtgtgactgtattgtgaaactaacatctgcg	840
OY	841	agagcaagtgctctgttttaagaagatbvgacattagaaggaagacccagctctgcgaattgcg	900
Db	841	agagcaagtgctctgttttaagaagatbvgacattagaaggaagacccagctctgcgaattgcg	900
OY	901	atgcccctgtgagatcaattctctgtcaacattctgcgcgaataatagatccaaatgtgtgcgac	960
Db	901	atgcccctgtgagatcaattctctgtcaacattctgcgcgaataatagatccaaatgtgtgcgac	960
OY	961	agcaatgtacaacggagagcctcaatgtgagcccaatctgcgaagaatgggagagcatggaagatg	1020
Db	961	agcaatgtacaacggagagcctcaatgtgagcccaatctgcgaagaatgggagagcatggaagatg	1020
OY	1021	gtttgagctgtgtcttctctatctacagctcctcaagctcaacgaagaagatbgtatgcctgt	1080
Db	1021	gtttgagctgtgtcttctctatctacagctcctcaagctcaacgaagaagatbgtatgcctgt	1080
OY	1081	aaggtgaccccaagatcgttataataactttgtgccatgtgcataaaaaa	1140
Db	1081	aaggtgaccccaagatcgttataataactttgtgccatgtgcataaaaaa	1140
OY	1141	aaaaaaaaaaaa 1152	
Db	1141	aaaaaaaaaaaa 1152	

RESULT	2
AAAT5823	
ID	AAAT5823 standard; DNA; 6486 BP.
AC	AAAT5823;
DT	22-JAN-2001 (first entry)
DE	Nucleotide sequence of the human Tc1-1b gene.
XX	
XX	
KM	Tc1-1; Tc1-1b; T cell malignancy; chromosome 14 abnormality; lymphoma;
KM	T-cell leukaemia; immunodeficiency syndrome; ataxia-telangiectasia; s
XX	
OS	Homo sapiens.
XX	
PN	WO20005169-A1.
PD	21-SEP-2000.
XX	
PF	15-MAR-2000; 2000MO-US06612.
XX	
PR	15-MAR-1999; 99US-0124714.
XX	
PA	(UYTE-) UNIV JEFFERSON THOMAS.
XX	
PI	Croce CM, Pekarsky Y;
XX	
DR	WPI; 2000-611514/58.
XX	
PT	Novel nucleic acid of Tc1-1 gene family, Tc1-1b, expressed in low
PT	levels in normal bone marrow and peripheral lymphocytes, but activated
PT	in T-cell leukemia and lymphoma, used to identify chromosome 14
PT	abnormalities
XX	
PS	Claim 12; Page 64-67; 70pp: English.
CC	The present sequence encodes a human Tc1-1b protein. The Tc1-1b gene
CC	is implicated in the development of T cell malignancies. Fragments of







KM Alzheimer's, Parkinson's disease; Huntington's disease; haemostatic;  
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;  
 KW chemokine; thrombolytic; drug screening; arthritis; inflammation;  
 KW leukaemia; ss.

OS Homo sapiens.

PN WO20015312-A1.

XX 26-JUL-2001.

XX 26-DEC-2000; 2000WO-US34263.

XX 21-JAN-2000; 2000US-0488725.

XX 25-APR-2000; 2000US-0552317.

XX 09-JUL-2000; 2000US-0598042.

XX 19-JUL-2000; 2000US-0620312.

XX 03-AUG-2000; 2000US-0653450.

XX 14-SEP-2000; 2000US-0662191.

XX 19-OCT-2000; 2000US-0693036.

XX 29-NOV-2000; 2000US-0727344.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;  
 PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;  
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;

XX WPI: 2001-442253/47.

XX P-PSDB: AAM39623.

XX Novel nucleic acids and polypeptides, useful for treating disorders  
 PT such as central nervous system injuries -

XX Claim 1; SEQ ID NO 1182; 10078pp; English.

XX The invention relates to human nucleic acids (AA157798-AA161369) and  
 CC the encoded polypeptides (AAM38642-AAM42213) with neurotrophic,  
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful  
 CC in gene therapy. A composition containing a polypeptide or polynucleotide  
 CC of the invention may be used to treat diseases of the peripheral nervous  
 CC system, such as peripheral nervous injuries, peripheral neuropathy and  
 CC localised neuropathies and central nervous system diseases, such as  
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic  
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the  
 CC utilisation of the activities such as: Immune system suppression,  
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic  
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,  
 CC assays for receptor activity, arthritis and inflammation, leukaemias and  
 CC C.N.S disorders.

CC Note: The sequence data for this patent did not form part of the printed  
 CC specification.

CC Sequence 1368 BP; 287 A; 395 C; 366 G; 320 T; 0 other.

XX SQ

Query Match 5.5%; Score 62.8; DB 22; Length 1368;  
 Best Local Similarity 57.7%; Pred. No. 4.9e-07;  
 Matches 112; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

OY 208 gtccatttggcagatgagcagatccggaagctatcttcctccgacagatgccc 267

DB 247 gtgcttctgctgggaagacgctgctctctgggaagcctatgacccacacacagatagc 306

OY 268 ttctccagctgcccgcgtgtgagcagctaccgccgggaaggaagtaaccagcagcgat 327

DB 307 ccaagcctctgctcctacatgctgagcagctaccctatgagacagataccgattcctcagac 366

OY 328 tccagttcttggaatagcagacatgcccagatctacatctatggaagcagctgtacta 387

DB 367 tccagttcttggaatagcagacatgcccagatctacatctatggaagcagctgtacta 426

OY 388 acatcatgacccgga 401

DB 427 gagctgtgccaga 440

RESULT 8

AA18877 ID AA18877 standard; DNA: 4922 BP.

XX AC AA18877;

XX 23-AUG-1996 (first entry)

XX Human TCL-1 gene.

XX TCL-1; chromosome-14; Leukaemia; lymphoma; gene therapy; ss.

OS Homo sapiens.

XX Key Location/Qualifiers

XX TATA\_signal 422..426

XX exon 462..627

XX intron 628..2203

XX exon 2204..2380

XX intron 2381..2799

XX exon 2800..2853

XX intron 2854..3726

XX exon 3727..4643

XX intron 4644..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

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XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

XX intron 5114..5113

XX exon 5114..5113

Disclosure: Page 69-72; 105pp; English.  
 The human TCL-1 gene (AA18877) was isolated from the region between  
 2 sets of breakpoints of approx. 160 kb on the TCL-1 locus of  
 chromosome 14. The TCL-1 gene is expressed at high levels in  
 leukemic cells carrying a t(14;14)(q11;q32) translocation or an  
 inv(14)(q11;q32) inversion. The gene, probes derived from it,  
 antisense sequences, and the encoded protein (AAR94975) can be used  
 for the diagnosis or treatment of conditions associated with



PT	New isolated human genes and the secreted polypeptides they encode
PT	useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders
XX	
XS	Claim 4; Page 343; 772pp; English.
CC	The invention relates to nucleic acid sequences (AAV84411 to AAV84633)
CC	encoding human secreted proteins (AAW8534 to AAW8756). The secreted
CC	protein gene sequences are deposited with the ATCC under deposit numbers
CC	ATCC 97919, 97974, 97975, 97976, 97977, 209007, 209008, 209009, 209010,
CC	209011, 209080, 209081, 209082, 209083, 209084, 209085, 209511. Host
CC	cells comprising recombinant vectors containing the nucleic acid
CC	sequences are used for the recombinant production of the secreted
CC	proteins. The polynucleotide and amino acid sequences are useful for at least
CC	one of the following purposes: (a) identifying their binding partners;
CC	(b) by protein or gene therapy. Pathological conditions can be also
CC	diagnosed by determining the presence of mutations in the new polypeptides in a sample
CC	or by determining the presence of mutations in the new polynucleotides.
CC	Specific uses are described for each of the polynucleotides, based on
CC	which tissues they are most highly expressed in and include developing
CC	products for the diagnosis or treatment of cancer, neurodegenerative
CC	diseases, developmental abnormalities and foetal deficiencies, blood
CC	disorders, tumours, leukemias, diseases of the immune system, allergies,
CC	diseases, hepatic and renal disease, lymphomas, inflammation, autoimmune
CC	ischemic shock, Alzheimer's and cognitive disorders, schizophrenia,
CC	restenosis, prostate diseases, obesity, disorders involving osteoclasts
CC	such as osteoporosis, arthritis or malignancies, infections of testes,
CC	lung or thymus, digestive/endocrine disorders, infections and AIDS. The
CC	polypeptides are also useful for identifying their binding partners.
CC	The present sequence represents a gene encoding a human secreted protein (see descriptor line for gene number and clone identification).
XX	
XQ	Sequence 1533 BP; 272 A; 454 C; 495 G; 302 T; 10 other;
Query Match	3.6%; Score 41.6; DB 20; Length 1533.
Best Local Similarity	53.0%; Pred. No. 0.25;
Matches	89; Conservative 0; Mismatches 79; Indels 0; Gaps
OY	985 gaggccatcgcaacagcgggagcatgatggaggttgcttgccttgcttcgtattt 1044
DB	1354 gggcgttgtctttggggggacagcggcgaataatgaactcgttcgtcagtagccagcgtgcgt 1413
OY	1045 cagcttcctcagctacgcagaagagatgctagtctcgtgaaagtgatgccaccagtatcgttta 1104
DB	1414 ggcccacagctgcctctatgtaaggcttccttgattgttcctcgagccccaccagaacca 1473
OY	1105 ataacttattgtctcacgctcaaaaaaaaanaaaaaaaaaa 1152
DB	1474 aatccaataaagtgacctcccaaaaaaaaaaaaaaaaaa 1521
RESULT 11	
ADDD04477	
ID	AADD04477 standard; CDNA: 1719 BP.
AC	
NC	
AA	AAD04477:
DE	
DT	04-JUL-2001 (first entry)
XX	
Human sphingosine kinase type 1 (hsk1) cDNA.	
XX	
Human: sphingosine kinase type 1; sK1; chromosome 17q25.2;	
KM	sphingosine-1-phosphate; SIP; drug screening; therapy; haemostasis;
KM	thrombosis; allergic reaction; proliferative disease; cancer;
KM	haematopoietic disorder; leukemia; cardiovascular disease; stroke;
KM	atherosclerosis; coronary artery disease; multiple sclerosis;
KM	autoimmune disease; inflammatory disease; dyslipidemia; diabetes;
KM	T helper-1-related disease; chronic obstructive pulmonary disease;
KM	asthma; myocardial infarction; neurodegenerative disorder;
KM	nervous healing; embryogenesis; anticoagulant; cerebroprotective;
KM	neuroprotective; antiporiatic; antiarthritic; cytosolic; cardiant;
KM	vulnerary; ss.



```

XX OS Homo sapiens.
XX FH Key
XX CDS
XX FT 270..1424
XX FT /*tag= a
XX FT /product= "human sphingosine kinase type 1 (hsk1)"
XX FT /note= "CDS is specifically claimed in claim 2 and
XX FT shown as SEQ ID NO 2"
XX FT polyA-signal
XX FT 1675..1681
XX FT /*tag= b
XX FT 264..273
XX FT /tag= c
XX FT /note= "translational initiator ATG is in a partial
XX FT kozak consensus"
XX PN MO200131029-A2.
XX PD 03-MAY-2001.
XX PF 27-OCT-2000; 2000MO-EP09498.
XX PR 28-OCT-1999; 99US-0162307.
XX PR 07-FEB-2000; 2000US-0180525.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Allen J, Gosink M, Melendez AJ, Takacs L;
XX DR WPI; 2001-300510/31.
XX DR P-SDB; AAE00924.
XX PS
XX PT New human sphingosine kinase type I gene for screening drug candidates
XX PT particularly inhibitors used for preventing or treating e.g.
XX PT atherosclerosis, thrombosis, asthma and diabetes.
XX PA
XX PS Claim 2; Fig 1; 91pp; English.
XX CC The present sequence is human sphingosine kinase type 1 (hsk1) cDNA.
XX CC The hsk1 gene is located on chromosome 17q25.2. The sk1 converts the
XX CC substrate sphingosine to sphingosine-1-phosphate (S1P). The sk1 gene
XX CC and encoded polypeptide are applicable in screening drug candidates
XX CC particularly inhibitors for preventing or treating disorders such as
XX CC hemostasis, thrombosis, allergic reactions, proliferative diseases
XX CC including cancer, hematopoietic disorders such as leukaemia,
XX CC cardiovascular diseases such as stroke, atherosclerosis and coronary
XX CC artery disease, dyslipidaemia, diabetes including type I and type II
XX CC diabetes, autoimmune and inflammatory diseases such as multiple
XX CC sclerosis, T helper-1 related diseases, chronic obstructive pulmonary
XX CC disease, asthma, myocardial infarction, neurodegenerative disorders,
XX CC natural wound healing processes and embryogenesis.
XX SQ Sequence 1719 BP; 305 A; 529 C; 556 G; 329 T; 0 other;

Query Match 3.6%; Score 41.6; DB 22; Length 1719;
Best Local Similarity 53.0%; Pred. No. 0.26;
Matches 89; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

OY 985 gagccacatgcacagtgaggagcatgagggatgggttgccctgctctctatt 1044
DB 1350 gagccacatgccttgaggagcagccagcaatggaatcttggtcaggagccacatgctt 1609
OY 1045 cagtccttcagctacaggaagagatgctcgtgaaggtacacacaglaactgagta 1104
DB 1610 gagccacatgccttcagctcgttcaggtcttggagcccccacccacaggaacca 1669
OY 1105 attaacattatgctacacgtcaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1152
DB 1670 aatccaataatgacatctcccaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1717

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AAC75966
ID AAC75966 standard; cDNA; 1512 BP.
XX AC AAC75966;
XX DT 08-FEB-2001 (first entry)
XX DE Human ORFX ORF1521 polynucleotide sequence SEQ ID NO:3041.
XX KW Human, open reading frame; ORFX; detection; cytosolic; hepatotropic;
XX KW vulnary; antiparkinsonian; neurotropic; neuroprotective;
XX KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiac;
XX KW immunostimulant; thrombolytic; coagulant; vasotrophic; antidiabetic;
XX KW hypotensive; dermatological; immunosuppressive; antihypertensive;
XX KW antiviral; antibacterial; antifungal; antirheumatic; antihistoid;
XX KW antianaemic; gene therapy; cancer; proliferative disorder; hypertension;
XX KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
XX KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
XX KW cholesterol ester storage; systemic lupus erythematosus; infection;
XX KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
XX KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
XX KW bone damage; cartilage damage; antiinflammatory disease; coagulation;
XX KW thrombosis; contraceptive; ss.
XX OS Homo sapiens.
XX PN MO200058473-A2.
XX PD 05-OCT-2000.
XX PF 31-MAR-2000; 2000MO-US08621.
XX PR 31-MAR-1999; 99US-0127607.
XX PR 02-APR-1999; 99US-0127636.
XX PR 05-APR-1999; 99US-0127728.
XX PR 30-MAR-2000; 2000US-0540763.
XX PA (CURA-) CURAGEN CORP.
XX PI Shinketsu RA, Leach M;
XX DR WPI; 2000-602362/57.
XX DR P-SDB; AAB41757.
XX PS
XX PT Novel nucleic acids and peptides derived from open reading frame X,
XX PT useful for treating e.g. cancers, proliferative disorders,
XX PT neurodegenerative disorders and cardiovascular disease.
XX PA
XX PS Claim 5; Page 2268-2269; 5507pp; English.
XX CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,
XX CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
XX CC sequences have activities such as: cytosolic; hepatotropic; vulnary;
XX CC antiparkinsonian; neurotropic; neuroprotective;
XX CC osteopathic; anticonvulsant; antirheumatic; immunosuppressant;
XX CC immunostimulant; cardiac; thrombolytic; coagulant; vasotrophic;
XX CC antidiabetic; hypotensive; dermatological; immunosuppressive;
XX CC antihypertensive; antibacterial; antiviral; antifungal; antirheumatic;
XX CC antianaemic; gene therapy. The sequences can be used for determining
XX CC the presence of or predisposition to, or preventing or treating
XX CC pathological conditions associated with an ORFX-associated disorder. The
XX CC nucleic acids can be used to express ORFX proteins in gene therapy
XX CC vectors. The proteins and nucleic acids may be used to treat cancers,
XX CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
XX CC graft vs host disease, cardiovascular disease, diabetes mellitus,
XX CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
XX CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
XX CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,
XX CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
XX CC nocturnal haemoglobinuria, antiinflammatory disease, to enhance
XX CC coagulation; to inhibit thrombosis; and as a contraceptive.
XX SQ Sequence 1512 BP; 323 A; 408 C; 488 G; 292 T; 1 other;

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	RESULT	13
	AC77441	
ID	AC77441	standard; cDNA; 2440 BP.
XX		
AC	AC77441;	
XX		
DT	08-FEB-2001	(first entry)
XX		
DE	Human ORF6 ORF2996 polynucleotide sequence SEQ ID NO:5991.	

KM Human; gen reading frame: ORF; detection: cytostatic; hepatotropic;  
 KM vulnary; anisoprotic; antiparkinsonian; nootropic; neuroprotective;  
 KM anticonvulsant; osteopathic; antirheumatic; immunosuppressant; cardiac;  
 KM immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;  
 KM hypotensive; dermatological; immunosuppressive; antiinflammatory;  
 KM antiviral; antibacterial; antifungal; antihemmatic; antithyroid;  
 KM antitumoral; gene therapy; cancer; proliferative disorder; hypertension;  
 KM neurodegenerative disorder; osteoarthritis; graft vs host disease;  
 KM cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;  
 KM cholesterol ester storage; systemic lupus erythematosus; infection;  
 KM severe combined immunodeficiency; malaria; autoimmune disorder; asthma;  
 KM allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;  
 KM thrombosis; cartilage damage; antiinflammatory disease; coagulation;  
 KM bone disease; contraceptive; ss.

XX	PN	WO200058473-A2.
XX	XX	
PD	05-OCT-2000.	
PE	31-MAR-2000; 2000WO-US08621	
XX	31-MAR-1999; 99US-0127607	
PR	02-APR-1999; 99US-0127636	
PR	03-APR-1999; 99US-0127728	
PR	30-MAR-2000; 2000US-0340763	
XX	(CURA-) CURAGEN CORP.	

PI Shinkets RA, Leach M;  
XX  
DR WPI; 2000-602362/57.  
DR P-PSDB; AAB43232.

PT Novel alpha acids and peptides derived from open reading frame X  
 PT useful for treating e.g. cancers, proliferative disorders,  
 PT neurodegenerative disorders and cardiovascular disease -  
 XS  
 XS Claim 5: Page 5164-5166; 5507pp: English.

CC AACG74444 to AACG77606 encode the proteins given in AAB0237 to AAB4397  
CC which represent the human ORFX open reading frames 1 to 3167. The ORFX  
CC sequences have activities such as: cytosolic; hepatotropic; vulnary;  
CC antisporitic; antiparkinsonian; nootropic; neutrophilic;  
CC osteopathic; anticonvulsant; antithyritic; immunosuppressive;  
CC immunostimulant; cardiac; thrombolytic; coagulant; vasotropic;  
CC antidiabetic; hypotensive; dermatological; immunosuppressive;  
CC antitumor; antibacterial; antiviral; antifungal; antineumatic;  
CC antihypoid; and antinaemic. The sequences can be used for determining  
CC the presence of or predisposition to, or preventing or treating  
CC pathological conditions associated with an ORFX-associated disorder. The

Query Match	3.5%	Score 40.4	DB 21	Length 2440
Best Local Similarity	88.0%	Pred. No. 0.63		
Matches 44	Conservative 0	Mismatches 6	Indels 0	Gaps 0
QY 1103	taattaacattatgtcgcacgtc	caaaaaaaaaaaaaaaaaaaaaa	1152	
Db 2378	taataaatcttatgtgcacgtc	aaaaaaaaaaaaaaaaaaaaa	2427	

RESULT	14
AAH34812	
ID	AAH34812 standard; cDNA; 2617 BP.
XX	
AC	AAH34812;
XX	
DT	03-SEP-2001 (first entry)
XX	
DE	Human colon cancer antigen encoding cDNA SEQ ID NO:1894

XX	Human colon cancer antigen encoding cDNA seq ID NO:1894.
KW	Human; colon cancer; colon cancer antigen; diagnosis; detection;
KM	colorectal carcinoma; chromosome 7; ss.

OS Homo sapiens.  
XX  
PN WO200122920-A2  
XX

PD	05-APR-2001.
XX	
PF	28-SEP-2000; 2000WO-US26524
XX	

PR 29-SEP-1999; 99US-0157137.  
PR 03-NOV-1999; 99US-0163280.  
XX  
PA (HUMA-) HUMAN GENOME SCI INC

PI	Ruben SM, Barash SC
XX	
DR	WPI; 2001-235357/24
DR	P-PSDB; AAG75407.

PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides  
PT useful for preventing, diagnosing and/or treating colorectal cancers -  
XX  
PS Claim 1, Page 3407-3408; 9803pp. English.

AAH32294, AAH37195 and AAG3351 to AAG77788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204



Fri Nov 30 11:03:05 2001

us-09-526-329-38.rng

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Page 12

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2001, 04:06:24 ; Search time 194.7 Seconds

(Without alignments)  
1340.024 Million cell updates/sec

Title: US-09-526-329-38

Perfect score: 1152

Sequence: 1 gagcgcgccgcgtgagcag.....aaaaaaaaaaaaaaaaaaaaa 1152

Scoring table: IDENTITY\_NTC

Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 113238999 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents\_NA: \*  
1: /cgn2\_6/ptodata/2/ina/5A.COMB.seq:\*\*  
2: /cgn2\_6/ptodata/2/ina/5B.COMB.seq:\*\*  
3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq:\*\*  
4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq:\*\*  
5: /cgn2\_6/ptodata/2/ina/PCUS.COMB.seq:\*\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:\*\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	64.4	5.6	7218	1	US-08-232-463-14 Sequence 14, Appl
2	62.8	5.5	1324	2	US-08-330-272-1 Sequence 1, Appl
3	62.8	5.5	1324	5	PCT-US95-13663-1 Sequence 1, Appl
4	50	4.3	4922	2	US-08-330-272-5 Sequence 5, Appl
5	50	4.3	4922	5	PCT-US95-13663-5 Sequence 5, Appl
6	38.8	3.4	1817	1	US-08-473-981A-5 Sequence 5, Appl
7	38.6	3.4	1817	2	US-08-474-087-5 Sequence 5, Appl
8	38.6	3.4	284	4	US-09-040-984-80 Sequence 80, Appl
9	37.6	3.3	2017	4	US-09-436-983-1 Sequence 2, Appl
10	37.2	3.2	1781	1	US-08-314-615-2 Sequence 2, Appl
11	37.2	3.2	1781	1	US-08-314-362-2 Sequence 2, Appl
12	37.2	3.2	1781	1	US-08-433-010-2 Sequence 2, Appl
13	37.2	3.2	1781	1	US-08-245-295-4 Sequence 4, Appl
14	37.2	3.2	1781	1	US-08-481-130-4 Sequence 4, Appl
15	37.2	3.2	1781	1	US-08-656-984A-4 Sequence 4, Appl
16	37.2	3.2	1781	1	US-08-482-882-2 Sequence 2, Appl
17	37.2	3.2	1781	1	US-08-485-604-4 Sequence 2, Appl
18	37.2	3.2	1781	1	US-08-483-389-2 Sequence 2, Appl
19	37.2	3.2	1781	2	US-08-487-1130-2 Sequence 2, Appl
20	37.2	3.2	1781	2	US-08-487-595-4 Sequence 4, Appl
21	37.2	3.2	1781	2	US-08-473-503-2 Sequence 2, Appl
22	37.2	3.2	1781	2	US-08-483-932-2 Sequence 2, Appl
23	37.2	3.2	1781	3	US-08-720-410A-2 Sequence 2, Appl
24	37.2	3.2	1781	3	US-08-714-017-2 Sequence 2, Appl
25	37.2	3.2	1781	3	US-08-863-790-2 Sequence 2, Appl
26	37.2	3.2	1781	3	US-08-475-680-2 Sequence 2, Appl
27	37.2	3.2	1781	3	US-08-296-749-2 Sequence 2, Appl

C 28	37	3.2	289	4	US-09-007-005-17	Sequence 17, Appl
C 29	37	3.2	289	4	US-09-244-796-17	Sequence 17, Appl
C 30	37	3.2	322	4	US-09-385-982-216	Sequence 216, App
C 31	37	3.2	322	4	US-09-385-982-362	Sequence 362, App
C 32	36.6	3.2	4843	3	US-08-986-485-1	Sequence 1, Appl
C 33	36.4	3.2	570	1	US-08-469-667-13	Sequence 13, Appl
C 34	36.4	3.2	570	1	PCT-US95-07289-13	Sequence 13, Appl
C 35	36.2	3.1	1357	6	5340934-7	Patent No. 5340934
C 36	36.2	3.1	1394	1	US-07-730-953-1	Sequence 1, Appl
C 37	36	3.1	1147	1	US-08-665-716-1	Sequence 1, Appl
C 38	36	3.1	1385	1	US-08-405-392-1	Sequence 1, Appl
C 39	36	3.1	3385	3	US-08-487-691-1	Sequence 1, Appl
C 40	36	3.1	3385	3	US-08-666-221B-3	Sequence 1, Appl
C 41	36	3.1	3385	3	US-08-666-221B-9	Sequence 1, Appl
C 42	35.6	3.1	902	2	US-08-378-939-11	Sequence 11, Appl
C 43	35.4	3.1	703	4	US-09-313-300-6	Sequence 6, Appl
C 44	35.4	3.1	989	2	US-08-874-460-1	Sequence 1, Appl
C 45	35.4	3.1	2684	2	US-08-984-171-2	Sequence 2, Appl

#### ALIGNMENTS

RESULT 1  
US-08-232-463-14  
; Sequence 14, Application US/08232463  
; Patent No. 5670367  
; GENERAL INFORMATION:  
; APPLICANT: DORNER, F.  
; APPLICANT: SCHEFFLINGER, F.  
; APPLICANT: PARKER, F. G.  
; TITLE OF INVENTION: RECOMBINANT FOMLOX VIRUS  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 1800 Diagonal Road, Suite 500  
; CITY: Alexandria  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22313-0299  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/232,463  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/935,313  
; FILING DATE:  
; APPLICATION NUMBER: EP 91 114 300.6  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,768  
; REFERENCE/DOCKET NUMBER: 30472/114 INNO  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)836-9300  
; TELEFAX: (703)683-4109  
; TELEX: 899149  
; INFORMATION FOR SEQ ID NO: 14:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 7218 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; CLONE: pTZgpt-F15  
US-08-232-463-14





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Query Match 3.4%; Score 38.8; DB 2; Length 1817;
Best Local Similarity 64.4%; Pred. No. 0.14;
Matches 58; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

OY 1063 aaggatgctagctccgtgaaagtgacccacagtactgtaataacttatgctca 1122
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1670 AAGGTGGCGGGGGCTTGCTGGCTGCCTTCAGATTCGACACCAATPAAGCTTCAAACTTC 1729
OY 1123 ctgtcaaaaaaaaaaaaaaaaaaaaaa 1152
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1730 CTAAAAAaaaaaaaaaaaaaaaaaaaaa 1759

RESULT 8
US-09-040-984-80
7 Sequence 80, Application US/09040984
7 Patent No. 6210883
7 GENERAL INFORMATION:
7 APPLICANT: Reed, Steven G.
7 APPLICANT: Wang, TongTong
7 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS
7 TITLE OF INVENTION: OF LUNG CANCER
7 NUMBER OF SEQUENCES: 86
7 CORRESPONDENCE ADDRESS:
7 ADDRESSEE: SEED AND BERRY LLP
7 STREET: 6300 Columbia Center, 701 Fifth Avenue
7 CITY: Seattle
7 STATE: WA
7 COUNTRY: USA
7 ZIP: 98104
7 COMPUTER READABLE FORM:
7 MEDIUM TYPE: Diskette
7 COMPUTER: IBM Compatible
7 OPERATING SYSTEM: DOS
7 SOFTWARE: FASTSEQ for Windows Version 2.0
7 CURRENT APPLICATION DATA:
7 APPLICATION NUMBER: US/09/040,984
7 FILING DATE: 18-MAR-1998
7 CLASSIFICATION:
7 ATTORNEY/AGENT INFORMATION:
7 NAME: Maki, David J.
7 REGISTRATION NUMBER: 31,392
7 REFERENCE/DOCKET NUMBER: 210121,456

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TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-622-4900  
TELEFAX: 206-282-6031  
TELEX:  
INFORMATION FOR SEQ ID NO: 80:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 284 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-040-984-80

Query Match 3.4%; Score 38.6; DB 4; Length 284;  
Best Local Similarity 81.5%; Pred. No. 0.058;  
Matches 44; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1099 tggtaataaattatgtctcactgcaaaaaaaaaaaaaaaaaa 1152  
DB 231 TTGGGAAATTAATGTTACTTCTGTAATAAAAAAAAAAAAAAAAAA 284

RESULT 9  
US-09-436-983-1  
Sequence 1, Application US/09436983  
Patent No. 6294343  
GENERAL INFORMATION:  
APPLICANT: Mack, David  
APPLICANT: Gish, Kurt C  
APPLICANT: Wilson, Keith E  
TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSING COLORECTAL CANCER,  
TITLE OF INVENTION: COMPOSITIONS, AND METHODS OF SCREENING FOR COLORECTAL  
TITLE OF INVENTION: CANCER MODULATORS  
FILE REFERENCE: A-68431/RMS/DAY  
CURRENT APPLICATION NUMBER: US/09/436,983  
CURRENT FILING DATE: 1999-11-09  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1  
LENGTH: 2017  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-436-983-1

Query Match 3.3%; Score 37.6; DB 4; Length 2017;  
Best Local Similarity 54.3%; Pred. No. 0.33;  
Matches 76; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 1013 aggaatggttgccgtgctcttcagtcctcagctcaggaaggatgct 1072  
DB 1872 atggaagaagactaggcttgcttagatcagtcacgttctcctcagctgagct 1931  
QY 1073 agcgcgtgaagtgacccacagctcagctgaacttaacttattgctcactgcaaaa 1132  
DB 1932 tcgagctttactgctcagaacgctcacaataaattttctcactgtgcaaaaaa 1991  
QY 1133 aaaaaaaaaaaaaaaaaa 1152  
DB 1992 aaaaaaaaaaaaaaaaaa 2011

RESULT 10  
US-08-314-615-2  
Sequence 2, Application US/08314615  
Patent No. 5525487  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Vazeux, Rosemay  
TITLE OF INVENTION: I-CAM Related Protein  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &

ADDRESSEE: Bicknell  
STREET: Two First National Plaza, 20 South Clark  
STREET: Street  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/314,615  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/827,689  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Borun, Michael F.  
REGISTRATION NUMBER: 25,447  
REFERENCE/DOCKET NUMBER: 27866/30704  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312)946-5750  
TELEFAX: (312)984-9740  
TEXT: 25-3856  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1781 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
US-08-314-615-2

Query Match 3.2%; Score 37.2; DB 1; Length 1781;  
Best Local Similarity 63.3%; Pred. No. 0.4;  
Matches 57; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

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DB 1677 AAGTGTGGGGGGGCTTGGCTGCTCAGATTCGACACAATAAAGCTCAACTCC 1736  
QY 1123 ctgtcaaaaaaaaaaaaaaaaaa 1152  
DB 1737 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1766

RESULT 11  
US-08-314-362-2  
Sequence 2, Application US/08314362  
Patent No. 5532127  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Vazeux, Rosemay  
TITLE OF INVENTION: I-CAM Related Protein  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &  
STREET: Two First National Plaza, 20 South Clark  
STREET: Street  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/314,362  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/894,061  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,689  
FILING DATE: 27-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US  
FILING DATE: 26-MAY-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: NO. 553127and, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 27866/30918  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312)346-5750  
TELEFAX: (312)984-9740  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1781 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
US-08-314-362-2

Query Match 3.2%; Score 37.2; DB 1; Length 1781;  
Best Local Similarity 63.3%; Pred. No. 0.4;  
Matches 57; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 1063 aaggagtgctgctgcggaagtgacacagctacgtgttaataactttatgtctca 1122  
DB 1677 AAGGTGGCGGGGCTGGCTGCCTCAGATTCCGACCAATTAAGCCTTCAAACTCC 1736

QY 1123 ctgtcaaaaaaaaaaaaaaaaaaaaaa 1152  
DB 1737 CAAAAAaaaaaaaaaaaaaaaaaaaaa 1766

RESULT 12  
US-08-433-010-2  
Sequence 2, Application US/08433010  
Patent No. 5663293  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Vazeux, Rosemary  
TITLE OF INVENTION: ICAM-Related Protein  
NUMBER OF SEQUENCES: 34  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &  
ADDRESSEE: Bicknell  
STREET: Two First National Plaza, 20 South Clark  
STREET: Street  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/433,010  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/009,266

FILING DATE:  
APPLICATION NUMBER: US 07/827,689  
FILING DATE: 27-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/889,724  
FILING DATE: 26-MAY-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/894,061  
FILING DATE: 05-JUN-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: NO. 5663293and, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 31218  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312)346-5750  
TELEFAX: (312)984-9740  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1781 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
US-08-433-010-2

Query Match 3.2%; Score 37.2; DB 1; Length 1781;  
Best Local Similarity 63.3%; Pred. No. 0.4;  
Matches 57; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 1063 aaggagtgctgctgcggaagtgacacagctacgtgttaataactttatgtctca 1122  
DB 1677 AAGGTGGCGGGGCTGGCTGCCTCAGATTCCGACCAATTAAGCCTTCAAACTCC 1736

QY 1123 ctgtcaaaaaaaaaaaaaaaaaaaaaa 1152  
DB 1737 CAAAAAaaaaaaaaaaaaaaaaaaaaa 1766

RESULT 13  
US-08-245-295-4  
Sequence 4, Application US/08245295  
Patent No. 5700658  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Kilgannon, Patrick D.  
TITLE OF INVENTION: ICAM-4 Materials and Methods  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive, Suite 6300  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/245,295  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,689  
FILING DATE: 27-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/889,724  
FILING DATE: 26-MAY-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/894,061

APPLICATION NUMBER: US 07/894,061  
 FILING DATE: 05-JUN-1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/009,266  
 FILING DATE: 22-JAN-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/102,852  
 FILING DATE: 05-AUG-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/245,295  
 FILING DATE: 18-MAY-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: WILLIAMS, JR. JOSEPH A.  
 REGISTRATION NUMBER: 38,659  
 REFERENCE/DOCKET NUMBER: 27866/32713  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 312-474-6300  
 TELEFAX: 312-474-0448  
 TELE: 25-3856  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1781 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: CDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 16..1659  
 US-08-461-130-4

Query Match	3.2%	Score 37.2;	DB 1,	Length 1781.
Best Local Similarity	63.3%;	Pred. No. 0.4;		
Matches	57;	Conservative	0;	Mismatches 33;
			Indels	0;
			Gaps	0.

  

Qy	1063	aaggatgctcgtatcgtgtaagagtgactcaagaagctggtatataaacttattgtctca	1122
Db	1677	AAAGTGGCGGGGGGCTTGGCTGGCCCTCAATTTCCGCACCAATAAAGCTTTAAACATCC	1736
Qy	1123	ctgtcacaataaaaaaaaaaaaaaaaaa	1152
Db	1737	CAAAAAAAAAAAAAAAAAAAAAAAAAA	1766

RESULT 14  
US-08-481-130-4  
Sequence 4, Application US/08481130  
Patent No. 5702917  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Kilgannon, Patrick D.  
TITLE OF INVENTION: ICAM-4 Materials and Methods  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borum  
STREET: 233 South Wacker Drive, 6300 Sears Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/481,130  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,689  
FILING DATE: 27-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/889,724  
FILING DATE: 26-MAY-1992  
PRIOR APPLICATION DATA:

Query Match	3.28;	Score 37.2;	DB 1;	Length 1781;
Best Local Similarity	63.38;	Pred. No. 0.4;		
Matches 57;	Conservative 0;	Mismatches 33;	Indels 0;	Gaps 0

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QY 1063 aagggaatgtagtccttgaaagtgcacctcaacagtaactgtttaacttaacttatgtctca 1122
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Db 1677 AAAGTGGCGGGGCTTGCGTGTGCCCTCAGATTCCGCACCATATAAGCCTTCAAACATCC 1736

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QY	1123	ctgtcaaaaaaaaaaaaaaa	1152
Db	1737	CAAAAAAAAAAAAAAAAAA	1766

RESULT 15  
US-08-656-984A-4  
Sequence 4, Application US/08656984A  
Patent No. 5753502  
GENERAL INFORMATION:  
APPLICANT: Gallatin, W. Michael  
APPLICANT: Kilgannon, Patrick D.  
TITLE OF INVENTION: ICAM-4 Materials and Methods  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Bornun  
STREET: 233 South Wacker Drive, 6300 Sears Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/656,984A  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,689  
FILING DATE: 27-JAN-1992

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;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/889,724
; FILING DATE: 26-MAY-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/894,061
; FILING DATE: 05-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/009,266
; FILING DATE: 22-JAN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/102,852
; FILING DATE: 05-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/245,295
; FILING DATE: 18-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,604
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: WILLIAMS, JR. JOSEPH A.
; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27866/33321
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1781 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16..1659
; US-08-656-984A-4

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Query Match 3.28; Score 37.2; DB 1; Length 1781;
Best Local Similarity 63.38; Pred.No.0.4;
Matches 57; Conservative 0; Mismatches 33; Indels 0; Gaps 0;
OY 1063 aaggagatgctagtcggaagtgagctcacagctgcttaacttaattatgctca 1122
    || || || || || || || || || || || || || || || || || || || ||
DB 1677 AAGTTGGGGGGGCTGGCTGCGCCCTCAGATCCGACCATATAAGCCTTCAAACTCC 1736
    || || || || || || || || || || || || || || || || || || || ||
OY 1123 ctgtcaaaaaaaaaaaaaaaaaaaaaa 1152
    || || || || || || || || || || || || || || || || || || || ||
DB 1737 CAAAAAaaaaaaaaaaaaaaaaaaaaa 1766
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Search completed: November 29, 2001, 08:49:30  
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